

AVID symposium®

Advances in Vascular Imaging and Diagnosis

Friday and Saturday, November 18-19, 2022

32nd Symposium & Workshops on Management and Clinical Issues

Symposium Chairs:

George L. Berdejo, BA, RVT, FSVU

Natalie A. Marks, MD, RPVI, RVT, FSVM

Symposium Co-Chairs:

Ann Marie Kupinski, PhD, RVT, FSVU

Nicos Labropoulos, BSc (Med), PhD, DIC, RVT

Laurence Needleman, MD

Frank J. Veith, MD

Honorary Chair:

Anne M. Jones, RN, BSN, RVT, RDMS, FSVU, FSDMS



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AVID symposium®

Advances in Vascular Imaging and Diagnosis

32ND SYMPOSIUM AND WORKSHOPS ON MANAGEMENT AND CLINICAL ISSUES

FRIDAY AND SATURDAY
NOVEMBER 18 – 19, 2022

SYMPOSIUM CHAIRS

George L. Berdejo, BA, RVT, FSVU
Natalie A. Marks, MD, RPVI, RVT, FSVM

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Ann Marie Kupinski, PhD, RVT, FSVU
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Frank J. Veith, MD

HONORARY CHAIR

Anne M. Jones, RN, BSN, RVT, RDMS, FSVU, FSDMS

SYMPOSIUM MANAGING DIRECTOR

Jacqueline M. Simpson, BBA

SYMPOSIUM ASSOCIATE DIRECTOR

Steven J. Feld, MSW

WORKSHOP COORDINATORS

Fernando Amador, RVT
Richard Dubin, AAS-DMS, RVT, RDMS

NURSE REVIEWER

Carol La Mantia Veith, RN, BA, MA

CENTER FOR CONTINUING MEDICAL EDUCATION

Steven M. Kawczak, PhD

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GENERAL INFORMATION

7:00 A.M.

General Registration – Rhinelander Gallery, 2nd Floor
Faculty Registration – Gramercy Suite West, 2nd Floor

Plenary Sessions will be held in the Murray Hill Suites on the 2nd floor.

NEEDS ASSESSMENT

Peripheral Vascular Disease (PVD) in the U.S. affects approximately 8 million to 12 million patients a year; some experts in the field believe this may be underestimated. The disease is associated with significant cardiovascular morbidity and mortality, with a high rate of fatal and non-fatal cardiovascular events such as myocardial infarction, stroke, renal failure, limb amputations, abdominal aortic aneurysms, pulmonary embolus and progressive ischemic end-organ dysfunction.

Since atherosclerosis is the most common cause of PVD, patients with PVD have a rate of cardiovascular mortality that is 3 to 4 times higher than age-matched controls. The cardiac mortality in symptomatic PVD is estimated to be 50% at 10 years. The reduction in quality of life from global vasculopathy in many patients can thus be significant.

Prompt and accurate diagnosis of these disease processes is of utmost importance. The AVIDsymposium is designed to address this need by providing the vascular community with continuing medical education in this area. The latest pharmacologic, radiologic, surgical and endovascular techniques and technologies will be presented, along with discussions of when these treatments are justified and indicated and when they are not. Updates on clinical trials and opportunities for dialogue with experts in the field provide insight along with the latest data on the results of the various diagnostic and treatment modalities.

EDUCATIONAL OBJECTIVES

Advances in Vascular Imaging and Diagnosis 32nd Symposium and Workshops on Management and Clinical Issues is an intensive two-day course designed to provide a comprehensive update on the diagnosis of vascular disease using real time B-mode imaging, color and spectral Doppler and other noninvasive techniques. The course will also address important issues in the area of Vascular Laboratory management, vascular ultrasound education, reimbursement and laboratory accreditation. An internationally renowned faculty has been assembled to provide the latest in their respective areas of expertise. This will be accomplished via didactic lectures and will be enhanced by ample time for faculty panel discussions designed to provide interaction with the audience. In addition, live scanning demonstrations and hands-on workshops will be supervised by known experts in their fields and will utilize leading edge equipment.

Following this continuing medical education activity, the participants will:

- Describe recent developments in vascular ultrasound technology
- Incorporate the Vascular Laboratory into the management of patients with vascular disease
- Identify and compare noninvasive tests that are available to aid in the diagnosis of vascular disease
- Identify current therapy and their roles for the effective management of peripheral arterial/venous disease; and carotid artery disease
- Utilize duplex ultrasound prior to, during and after endovascular procedures
- Apply issues regarding Vascular Laboratory management, reimbursement and accreditation to their practice.

TARGET AUDIENCE

This course is intended for:

- Vascular Technologists
- Sonographers
- Vascular Surgeons
- Radiologists
- Neurologists
- Vascular Nurses
- Vascular Interventionalists
- Medical and Ultrasound Students
- and other physicians and allied health professionals with an interest in the diagnosis and treatment of vascular disease.

ONLINE ACCESS TO ABSTRACTS

Presentation slides will be used as abstracts and will be available on the program page of the AVIDsymposium website at www.AVIDsymposium.org after the meeting. Abstracts will be available on the website for one full year.

GENERAL INFORMATION

ACCREDITATION STATEMENT

In support of improving patient care, Cleveland Clinic Center for Continuing Education is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Credit Designation

American Medical Association (AMA)

Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of *16 AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

American Nurses Credentialing Center (ANCC)

Cleveland Clinic Center for Continuing Education designates this live activity for a maximum of 16 ANCC contact hours.

Certificate of Participation

A certificate of participation will be provided to other healthcare professionals for requesting credits in accordance with their professional boards and/or associations.

FOR ARDMS AND CCI CREDENTIALLED VASCULAR TECHNOLOGISTS AND SONOGRAPHERS

For Vascular Technologists and Sonographers, Continuing Medical Education credit hours are available on an hour-for-hour basis and may be used to fulfill the continuing medical education requirements necessary to retain certification with the American Registry for Diagnostic Medical Sonography (ARDMS) and Cardiovascular Credentialing International (CCI), or for accreditation with the Intersocietal Accreditation Commission (IAC).

1. http://www.ardms.org/regisrtaant_resources/cme_general_information/cme_general_information
2. <http://www.cci-online.org/content/ceu-providers>

CME CERTIFICATES AND COURSE EVALUATION FORMS

Your CME certificate will be available online within two weeks after the meeting. An e-mail with a unique password and instructions on how to obtain the certificate and complete a brief, optional course evaluation will be sent to all registered attendees. The e-mail will be sent to the e-mail address that was used to register the attendee. **Please note that CME Certificates must be claimed by February 28, 2023.**

FACULTY DISCLOSURE

The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Integrity and Independence requiring mitigation of all faculty conflicts of interest. Faculty declaring a relevant financial relationship will be identified in the activity syllabus.

ADA STATEMENT

The Cleveland Clinic Foundation Center for Continuing Education complies with the legal requirements of the Americans with Disability Act. If any participant of the AVIDsymposium requires special assistance, please send written request to AVIDsymposium by e-mail to admin@avidsymposium.org at least one month prior to the activity.

HOTEL AND TRAVEL

A block of rooms has been reserved at the conference rate of \$349 plus taxes per night. This rate is available until the block is filled or until October 13, 2022. *Please request the VEITH rate when reserving your accommodations.*

New York Hilton-Midtown (Symposium Site)

1335 Avenue of the Americas
New York, NY 10019
(212) 586-7000 or
1-800-HILTONS (toll free U.S. only)

American Express Global Business Travel at The Cleveland Clinic

Phone: (216) 444-2564, Extension 62134971
E-mail: Diane.M.Geneva@amexgbt.com

FRIDAY, NOVEMBER 18, 2022

7:50 – 8:00

Welcome And Opening Remarks

Navigating The Meeting And Optimizing Your Experience

George L. Berdejo, BA, RVT

Natalie A. Marks, MD, RPVI, RVT

SESSION 1

VASCULAR VIBES: HEMODYNAMICS, FLOW AND PRESSURE IN NORMAL AND DISEASED VESSELS

Moderator: *Ann Marie Kupinski, PhD, RVT*

8:00 – 8:12

Cardiac Effects On The Peripheral Vascular Evaluation

David M. Williams, MS, RDCS, RVT

8:12 – 8:24

Characteristics Of Pressure And Flow In The Arterial System: Applications In Noninvasive Testing

Sergio X. Salles-Cunha, PhD, RVT

8:24 – 8:36

Venous Hemodynamics: Effects Of Position, Pressure Changes, Incompetence And Obstruction In The Lower Extremities

William B. Schroedter, BS, RVT, RPhS

8:36 – 8:48

Hemodynamics Of Cerebrovascular Flow In Normal, Stenotic And Occluded Vessels

Phillip J. Bendick, PhD, RVT

8:48 – 9:00

Recognizing And Correcting Color Doppler Flow Artifacts

Traci B. Fox, EdD, RDMS, RVT

9:00 – 9:20

Panel Discussion

SESSION 2

IMAGING ESSENTIALS: 5 TOP PRACTICAL AND TECHNICAL TIPS TO FACILITATE THE DUPLEX ULTRASOUND EVALUATION

Moderator: *George L. Berdejo, BA, RVT*

This session will provide the participant with essential sonographic techniques, pearls and pitfalls of the major areas of vascular ultrasound testing.

9:20 – 9:32

Carotid Duplex Imaging

Patricia Vargas, DHSc, RVT

9:32 – 9:44

Lower Extremity Vein Imaging (DVT)

Robert De Jong, RDMS, RVT

9:44 – 9:56

Mesenteric Imaging

Anita Harrington, MS, RVT, RDMS

9:56–10:08

Lower Extremity Bypass Grafts

Ann Marie Kupinski, PhD, RVT

10:08–10:20

Hemodialysis Access

Aubrey Rybyinski, BS, RDMS, RVT

10:20–10:30

Panel Discussion

10:30–11:00

Break – Visit Exhibits And Pavilions (2nd and 3rd Floors)

SESSION 3

**DECONSTRUCTING DIFFICULT DIAGNOSTIC DILEMMAS:
“CASES” IN POINT**

Moderators: *Laurence Needleman, MD*
Heather L. Gornik, MD

- | | |
|--------------------|---|
| 11:00–11:12 | Duplex Assessment Of Ilio-Caval Vein Compression Syndrome
<i>Richard Dubin, AAS-DMS, RDMS, RVT</i> |
| 11:12–11:24 | Renal And Liver Pathology For The RVT
<i>Patrick A. Washko, BS, RT, RDMS, RVT</i> |
| 11:24–11:36 | Lower Extremity Arterial Testing
<i>Aubrey Rybyinski, BS, RDMS, RVT</i> |
| 11:36–11:48 | Lessons Learned Through Continuous Quality Improvement And Assurance
<i>Marge Hutchisson, BS, RVT, RDMS, RPhS</i>
<i>Ann Marie Kupinski, PhD, RVT</i> |
| 11:48–12:00 | Panel Discussion |
| 12:00– 1:00 | Lunch Break (South Corridor, 2nd Floor)
Visit Exhibits And Pavilions (2nd and 3rd Floors) |

SESSION 4

**BEYOND THE CORE CONCEPTS IN VASCULAR TESTING:
ARE YOU MEETING THE STANDARD**

Moderator: *Natalie A. Marks, MD, RPVI, RVT*

This session will venture into advanced vascular evaluation related to the “big 5” major areas of vascular testing as it relates to preoperative diagnosis and post-intervention follow-up and patient evaluation and will describe appropriate use, standard and non-standard image acquisition and other components that define the “complete” vascular examination.

- | | |
|--------------------|---|
| 1:00 – 1:12 | Diagnosis And Treatment Of Acute Lower Limb Ischemia With Duplex Guidance
<i>Natalie A. Marks, MD, RPVI, RVT</i> |
| 1:12 – 1:24 | Lower Extremity Imaging After Endovenous Procedures: When, What To Expect And How To Report Your Findings
<i>Jean M. White-Melendez, RVT, RPhS</i> |
| 1:24 – 1:36 | Pelvic And Abdominal Imaging After Endovenous Procedures: When, What To Expect And How To Report Your Findings
<i>Jill S. Sommerset, BS, RVT</i> |
| 1:36 – 1:48 | Carotid Artery Imaging After Stenting And/Or Endarterectomy: It’s More Than The Usual Protocol
<i>Phillip J. Bendick, PhD, RVT</i> |
| 1:48 – 2:00 | Hemodialysis Access “Surveillance”: Flow Volume, Flow Velocity And How Often Is Appropriate
<i>Christina S. Fields, BS</i> |
| 2:00 – 2:12 | Duplex Surveillance Should Be Used After All Aorto-Bifemoral Bypasses: It Improves Outcomes
<i>Keith D. Calligaro, MD</i> |
| 2:12 – 2:30 | Panel Discussion |

SESSION 5

ERGONOMICS

AUDIT YOUR VASCULAR LAB – ARE YOU
ERGONOMICALLY “SOUND”? ERGONOMICS “SOS”
(SOUND OCCUPATIONAL STRATEGIES)

Moderator: *George L. Berdejo, BA, RVT*

This important session will discuss strategies designed to help you to Ergonomically Enhance the Experience for the Vascular Sonographer by:

- *Increasing awareness around health and safety in the workplace.*
- *Recognizing factors that influence the Vascular ultrasound professionals' likelihood of developing work-related musculoskeletal disorders.*
- *Reducing ergonomic injury and prevent long-term permanent bodily damage*

- | | |
|--------------------|--|
| 2:30 – 2:40 | OSHA Updates And Advocating On Behalf Of Yourself And Your Staff – How To And Why It's Important
<i>George L. Berdejo, BA, RVT</i> |
| 2:40 – 2:50 | Increase Your “Ergonomic Index” - Basic And Innovative Ways To Make Exams More Ergonomic – “Accessorizing” The Vascular Lab Suite
<i>Kayla Wiesekel, MHSc, RVT, RVS, RPhS</i> |
| 2:50 – 3:00 | How To Be Ergonomically Sound With Obese And Uncooperative Patients
<i>Robert De Jong, RDMS, RVT</i> |
| 3:00 – 3:10 | Managing Turbulent High Volumes And High Impact Examinations - Save Your Staff, Enhance Sonographer Satisfaction And Maximize Productivity And Maximize Careers
<i>Joseph P. Hughes, BS, RVT, RVS, RPhS</i> |
| 3:10 – 3:25 | Panel Discussion |
| 3:25 – 3:55 | Break – Visit Exhibits And Pavilions (2nd and 3rd Floors) |

SESSION 6

VENOUS IMAGING: TERMINOLOGY, TESTING AND
TREATMENT FOR PELVIC VEIN DISORDERS

Moderator: *Nicos Labropoulos, BSc (Med), PhD, DIC, RVT*

- | | |
|--------------------|---|
| 3:55 – 4:03 | Definitions And New Classification: (Symptoms-Varices-Pathophysiology - SVP)
<i>Mark H. Meissner, MD</i> |
| 4:03 – 4:11 | Evaluation Of Pelvic Reflux
<i>Nicos Labropoulos, BSc (Med), PhD, DIC, RVT</i> |
| 4:11 – 4:19 | Combined Lower Limb And Pelvic Reflux
<i>Kathleen D. Gibson, MD</i> |
| 4:19 – 4:27 | The Role Of IVUS
<i>Steve Elias, MD</i> |
| 4:27 – 4:35 | Treatment Of Pelvic Reflux
<i>Antonios P. Gasparis, MD</i> |
| 4:35 – 4:43 | Treatment Of Obstruction
<i>Stephen A. Black, MD</i> |
| 4:43 – 4:51 | Current Views On Left Renal Vein Obstruction
<i>Thomas S. Maldonado, MD</i> |
| 4:51 – 4:59 | Pathology Affecting The Inferior Vena Cava
<i>Luis R. Leon, MD, RVT</i> |
| 4:59 – 5:07 | Post-Interventional Imaging
<i>Neil M. Khilnani, MD</i> |
| 5:07 – 5:25 | Panel Discussion |

5:25 – 5:30

Wrap Up And What To Expect Tomorrow
George L. Berdejo, BA, RVT

SATURDAY, NOVEMBER 19, 2022

7:40 – 7:45

Morning Remarks
George L. Berdejo, BA, RVT

SESSION 7

CEREBROVASCULAR

Moderator: *Laurence Needleman, MD*

7:45 – 7:55

The IAC Carotid Criteria Consensus Project: The Final Answer
Heather L. Gornik, MD

7:55 – 8:05

What Percent Of Carotid Plaques Are Really High Stroke Risk: How To Detect Them With Ultrasound To See Neovascularization
Henrik Sillesen, MD, DMSc

8:05 – 8:15

Redundant Testing/Imaging Prior To CEA: Is There Too Much Happening? When Is Duplex Enough And When Is More Imaging Necessary, If At All?
Laurence Needleman, MD

8:15 – 8:25

Transcranial Doppler (TCD) Hits During TCAR: When Do They Occur And What Is Their Significance
Cynthia K. Shortell, MD

8:25 – 8:35

Panel Discussion

SESSION 8

TOPICS RELATED TO THE SOCIETY FOR VASCULAR ULTRASOUND (SVU), THE CURRENT HEALTH CARE ENVIRONMENT AND THEIR IMPACT ON VASCULAR ULTRASOUND AND THE VASCULAR SONOGRAPHY PROFESSIONAL

Moderators: *Anne M. Jones, RN, BSN, RVT, RDMS*
Karen Burns, RN, RVT, MBA

8:35 – 8:43

Critical Issues For The Vascular Ultrasound Professional And Introduction To The Session
Anne M. Jones, RN, BSN, RVT, RDMS

8:43 – 8:51

State Of The Society for Vascular Ultrasound And Highlights Of The 2022 SVU Annual Conference
Anita Harrington, MS, RVT, RDMS

8:51 – 8:59

Update On The Activities Of The SVU Diversity, Equity And Inclusion Council
George L. Berdejo, BA, RVT

8:59 – 9:07

Update On The Status Of The Journal of Vascular Ultrasound (JVU)
R. Eugene Zierler, MD, RPVI

9:07 – 9:15

IAC Updates
Aubrey Rybynski, BS, RDMS, RVT

9:15 – 9:25

Reimbursement Updates
Robert M. Zwolak, MD, PhD

9:25 – 9:55

Break – Visit Exhibits And Pavilions (2nd and 3rd Floors)

SESSION 9

PROFESSIONAL DEVELOPMENT – ADVANCED VASCULAR SONOGRAPHY (AVS)

Moderators: *George L. Berdejo, BA, RVT*
Anne M. Jones, RN, BSN, RVT, RDMS

- | | |
|--------------------|--|
| 9:55 –10:03 | The Way We Were - History Of The AVS Concept – How Did We Get Here
<i>Anne M. Jones, RN, BSN, RVT, RDMS</i> |
| 10:03–10:11 | Where We Are Today: The Advanced Practice Sonographer Model
<i>Traci B. Fox , EdD, RDMS, RVT</i> |
| 10:11–10:19 | Current Status Of The CCI Initiative
<i>TBD</i> |
| 10:19–10:27 | Update On Advanced Sonography
<i>Leah Jolly, BS, RVT, RPhS</i> |
| 10:27–10:35 | Where We Are Going - Benefits Of An AVS Credential: How This Helps Your Practice, The Vascular Ultrasound Professional And The Community At Large
<i>Joseph P. Hughes, BS, RVT, RVS, RPhS</i> |
| 10:35–10:55 | Combined Panel Discussion (Sessions 7 and 8) |

SESSION 10

ABDOMEN*

Moderator: *Richard C. Pennell, MD, RPVI*

- | | |
|--------------------|---|
| 10:55–11:05 | Renal Artery Evaluation: 5 Top Tips
<i>Patrick A. Washko, BS, RT, RDMS, RVT</i> |
| 11:05–11:15 | The Endograft Examination From A To Z
<i>Nicos Labropoulos, BSc (Med), PhD, DIC, RVT</i> |
| 11:15–11:25 | Common And Not So Common Aortic Pathologies
<i>Richard C. Pennell, MD, RPVI</i> |
| 11:25–11:30 | Transition To Workshops |

*Questions fielded in Workshop Session.

SESSION 11

WORKSHOP ROTATION 1 (HANDS-ON)

- | | |
|-----------------------------|---|
| 11:30–12:20 | |
| <i>Regent Parlor</i> | Hemodialysis Access
<i>Christina S. Fields, BS</i> |
| <i>Sutton Parlor Center</i> | Renal And Mesenteric Artery Imaging
<i>Traci B. Fox, EdD, RDMS, RVT</i> |
| <i>Gibson Suite</i> | Transcranial Doppler And Imaging (Novasignal)
<i>Patricia Vargas, DHSc, RVT</i> |
| <i>Sutton Parlor South</i> | Carotid Imaging
<i>Patrick A. Washko, BS, RT, RDMS, RVT</i> |
| <i>Madison Suite</i> | Lower Extremity Venous Reflux Testing
<i>William B. Schroedter, BS, RVT, RPhS</i>
<i>Fernando Amador, RVT</i> |
| <i>Clinton Suite</i> | Iliac Vein Compression
<i>Jean M. White-Melendez, RVT, RPhS</i>
<i>Richard Dubin, AAS-DMS, RVT, RDMS</i> |
| <i>Sutton Parlor North</i> | Plantar Acceleration Time
<i>Jill S. Sommerset, BS, RVT</i> |
| <i>Bryant Suite</i> | Physiologic Testing
<i>Kayla Wiesekel, MHSc, RVT, RVS, RPhS</i> |

SATURDAY SESSIONS 11–13

Morgan Suite Lower Extremity Arterial Imaging
William N. Del Valle, RVT

Murray Hill Suite Interpreting With The Masters
R. Eugene Zierler, MD, RPVI
Richard C. Pennell, MD, RPVI

12:20–1:20 **Lunch Break (South Corridor, 2nd Floor)**

SESSION 12

WORKSHOP ROTATION 2 (HANDS-ON)

1:20 – 2:20

Regent Parlor Hemodialysis Access
Christina S. Fields, BS

Sutton Parlor Center Renal And Mesenteric Artery Imaging
Patrick A. Washko, BS, RT, RDMS, RVT

Gibson Suite Transcranial Doppler And Imaging (Novasignal)
Joseph P. Hughes, BS, RVT, RVS, RPhS

Sutton Parlor South Carotid Imaging
David M. Williams, MS, RDMS, RVT

Madison Suite Lower Extremity Venous Reflux Testing
William B. Schroedter, BS, RVT, RPhS
Fernando Amador, RVT

Clinton Suite Iliac Vein Compression
Jean M. White-Melendez, RVT, RPhS
Richard Dubin, AAS-DMS, RVT, RDMS

Sutton Parlor North Plantar Acceleration Time
Jill S. Sommerset, BS, RVT

Bryant Suite Physiologic Testing
Kayla Wiesekel, MHSc, RVT, RVS, RPhS

Morgan Suite Lower Extremity Arterial Imaging
William N. Del Valle, RVT

Murray Hill Suite Interpreting With The Masters
Ann Marie Kupinski, PhD, RVT
Heather L. Gornik, MD

2:20 – 2:25 **Transition To Plenary Sessions
(Murray Hill Suites, 2nd Floor)**

SESSION 13

PRACTICE ENHANCEMENTS

Moderator: *R. Eugene Zierler, MD, RPVI*

2:25 – 2:35 Review Of The 2021 And 2022 Vascular Ultrasound
Literature: What's New, What Matters
Phillip J. Bendick, PhD, RVT

2:35 – 2:45 The Role Of The Medical Director In The Vascular Lab
R. Eugene Zierler, MD, RPVI

2:45 – 2:55 Infection Prevention For The Vascular Sonographer
Robert De Jong, RDMS, RVT

2:55 – 3:05 Patterns Of Infraopopliteal Arterial Occlusive
Disease: Lessons Learned From A Survey Of A Small
Community Hospital
William N. Del Valle, RVT

3:05 – 3:30 **Refreshment Break (South Corridor, 2nd Floor)**

SESSION 14

“CURVEBALLS AND CONTROVERSIES”

Moderator: *Phillip J. Bendick, PhD, RVT*

- 3:30 – 3:40** Waveform Nomenclature Consensus
David M. Williams, MS, RDCS, RVT
- 3:40 – 3:45** Commentary
Laurence Needleman, MD
- 3:45 – 3:55** Critical Vascular Lab Findings: Which Are They And
How Do You Manage This?
Heather L. Gornik, MD
- 3:55 – 4:05** “Limited” Imaging Protocols In A COVID-19 World:
How Safe Is This? Are They Still Necessary?
Laurence Needleman, MD

SESSION 15

**NOVEL TECHNIQUES AND APPLICATIONS AND
CUTTING EDGE TECHNOLOGIES**

Moderator: *Phillip J. Bendick, PhD, RVT*

- 4:05 – 4:15** Ultrasound Characteristics Of Different Type Of
Thrombi
Nicos Labropoulos, BSc (Med), PhD, DIC, RVT
- 4:15 – 4:25** Pedal Acceleration Time: Why, What, How
Jill S. Sommerset, BS, RVT
- 4:25 – 4:35** **Combined Panel Discussion (Sessions 14 and 15)**

SESSION 16

HEMODIALYSIS ACCESS

Moderator: *George L. Berdejo, BA, RVT*

- 4:35 – 4:45** Reporting And Terminology: Are We All On The Same
Page
Christina S. Fields, BS
- 4:45 – 4:55** Pre-Operative Mapping Evaluation – Tips And Tricks
Richard Dubin, AAS-DMS, RVT, RDMS
- 4:55 – 5:05** Duplex Ultrasound In Endo-AVF Creation
Leah Jolly, BS, RVT, RPhS
- 5:05 – 5:15** Common And Not So Common Hemodialysis Access
Complications
Sergio X. Salles-Cunha, PhD, RVT
- 5:15 – 5:25** **Panel Discussion**
- 5:25 – 5:30** Summary Of Meeting And Next Steps
George L. Berdejo, BA, RVT
Natalie A. Marks, MD, RPVI, RVT
- 5:30** **Raffle Drawing (You Must Be Present To Win)**
- 5:30** **Symposium Ends**

REGISTRATION

AVIDsymposium®

Advances in Vascular Imaging and Diagnosis

Friday - Saturday, November 18-19, 2022

NEW YORK HILTON-MIDTOWN
1335 Avenue Of The Americas
New York, NY 10019

Meeting Registration

Full Registration	Tuition
Technologists & Sonographers	\$495
Physicians.....	\$695
Physicians Combination Rate - AVIDsymposium & VEITHsymposium.....	\$1899 (Tuesday - Saturday)
Nurse Practitioners & Physician Assistants (Non-Physician, Clinician)	\$595
Residents & Nurses	\$495
Medical & Ultrasound Students*	\$175 (Friday - Saturday)
*Letter of verification from Dean is required and must be emailed to registrar@avidsymposium.org	
All Others.....	\$650

Registration Fee includes curriculum materials, lunch and breaks.

Refund: There is a \$95 cancellation fee if canceled by October 22, 2022. No refunds will be made thereafter.

Online: <http://www.AVIDsymposium.org>

Phone: 800-987-9314, (select option 2) with your payment information

Mail: this form with your payment to:
The Cleveland Clinic Educational Foundation
Attn: AVIDsymposium EGCC085
P.O. Box 931653
Cleveland, OH 44193-1082
Please notify registrar@avidsymposium.org if sending by overnight mail or courier service.

Additional Information

AVIDsymposium
4455 Douglas Avenue, Suite 11E
Riverdale, New York 10471

Phone: 800-987-9314, (select option 2)

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Updates: www.AVIDsymposium.org

AVID symposium®

Advances in Vascular Imaging and Diagnosis

SAVE THE DATE!

Friday and Saturday, November 17 and 18, 2023

33rd Symposium & Workshops

on Management
and Clinical Issues

Symposium Chairs:

George L. Berdejo, BA, RVT, FSVU

Natalie A. Marks, MD, RPVI, RVT, FSVM

Symposium Co-Chairs:

Ann Marie Kupinski, PhD, RVT, FSVU

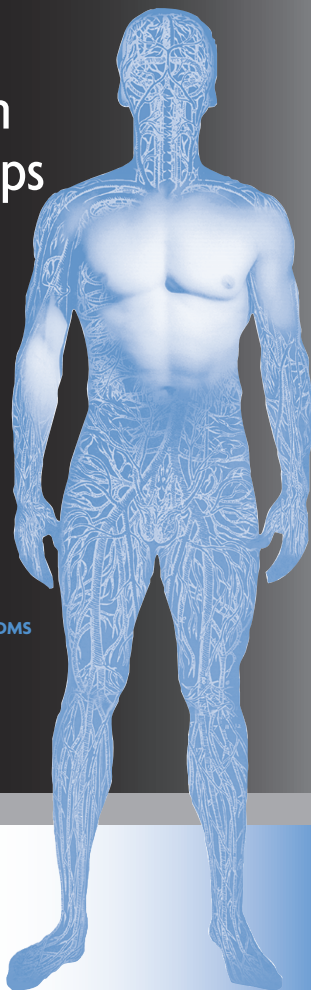
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